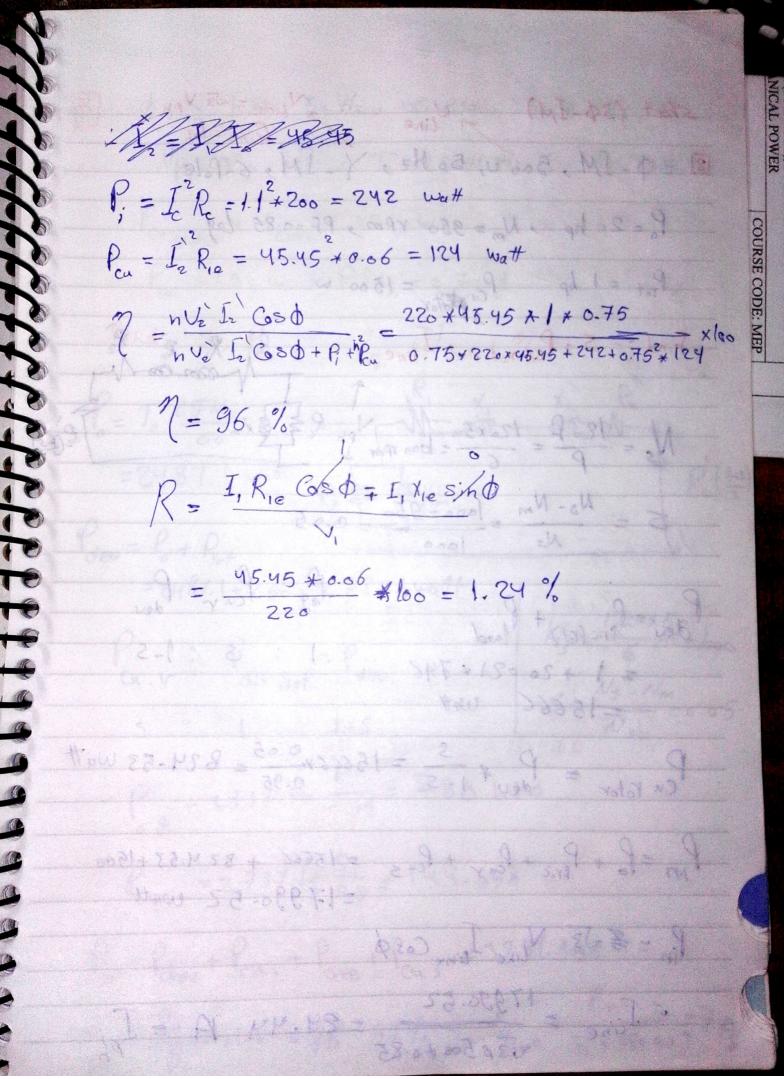


transformer cuin y News do Data: - Alo KVA, 220 /110V transformer & R1 =0.02 R X=0.04 R R2 =0.01 2. X2=0.01 R Rc= 200 2. Xm = 300 R if the transformer is supplying 75% of its full lead at unity Power factor & rated secondary voltage find The transformer referred circuit Parameters The Voltage regulation The transformer efficiency $R_{1e} = R_1 + R_2 = R_1 + R_2 / k^2$; $k = \frac{V_2}{V_1} = \frac{110}{220} = 0.5$ = 0.02 + 0.01 = 0.06 R $X_{1e} = X_1 + X_2 = 0.01 + \frac{0.01}{0.5^2} = 0.08 \ \Omega$ Rre = R2 + K2R, = 0.01 + 0.5 you = 0.015 R X2e = X2 + K2X, = 0:01 +0.04 x 0.5? = 0.02 l at F. L = loxlo = 45.45 A THE WOODA I= 100 = 1.1A, Im = \$1.700 = 0.667 JA



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